Attorney's Docket No.: 06618-923001 Client's Ref. No.: CIT 3685-CIPRECEIVED

CENTRAL FAX CENTER

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AUG 0 4 2004

Number of pages including this page

Applicant: Anatoliy Savchenkov et al.

Serial No.: 10/702,201

Filed

: November 4, 2003

Title

: Optical Filter Having Coupled Whispering-Gallery-Mode Resonators

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Attached to this facsimile communication cover sheet is an Information Disclosure Statement (2 pages) and a Form PTO-1449 (1 page), faxed this 4th day of August 2004 to the United States Patent and Trademark Office.

Respectfully submitted,

Date: August 4, 2004

Reg. No. 43,312

PTO Customer No. 20985

12390 El Camino Real

Fish & Richardson P.C.

San Diego, California 92130

Telephone: (858) 678-5070

Fax: (858) 678-5099

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Attorney's Docket No.: 06618/923001/CIT 3685-CIP

RECEIVED CENTRAL FAX CENTRE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUG 0 4 2004

Applicant : Anatoliy Savchenkov et al.

Serial No.: 10/702,201

Filed : November 4, 2003

: OPTICAL FILTER HAVING COUPLED WHISPERING-GALLER Title

MODE RESONATORS

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants call attention to the attached Information Disclosure Statement and documents listed on form PTO-1449.

Each document listed on the herewith Form PTO-1449 was cited in the attached PCT Search Report dated July 27, 2004, issued in a foreign counterpart application not more than three months ago. To the best knowledge of the undersigned, this is the first citation of these items in any communication from a foreign patent office in a counterpart foreign application.

The documents are in the English language; hence no concise explanation is necessary per Rule 98(a)(3).

CERTIFICATE OF TRANSMISSION BY FACSIMILE

I heraby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on the date indicated below.

August 4, Date of Transmission

Signatur

9. Gebbart

Name of Person Signing Certificate

Page 2 of 2

Attorney's Docket No.: 06618/923001

Consideration of the foregoing and enclosure plus the return of a copy of the enclosed form PTO-1449 with the Examiner's initials in the left column per MPEP 609 are earnestly solicited along with an early action on the merits.

Please apply any additional charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: August 4, 2004

Bing Ai

Reg. No. 43,312

Fish & Richardson P.C. USPTO Customer No. 20985 12390 El Camino Real San Diego, CA 92130

Telephone: (858) 678-5070 Facsimile: (858) 678-5099

10422281.doc

PATENT COOPERATION TREATY

To: SCOTT C. HARRIS	PCT					
FISH & RICHARDSON PC. 12390 EL CAMINO REAL SAN DEIGO, CA 92130	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION					
·	(PCT Rule 44.1)					
	Date of Mailing (day/month/year) 27 JUL 2004					
Applicant's or agent's file reference 06618-923WO1	FOR FURTHER ACTION See paragraphs 1 and 4 below					
International application No. PCT/US03/35131	International filing date (day/month/year) O4 November 2003 (04.11.2003)					
Applicant CALIFORNIA INSTITUTE OF TECHNOLOGY						
The applicant is bereby notified that the international se	arch report has been established and is transmitted herewith.					
Filing of smemiments and statement under Article I. The applicant is entitled, if he so wishes, to amend the	9: claims of the international application (see Rule 46):					
When? The time limit for filing such amendments international search report.	is normally two months from the date of transmittal of the					
Where? Directly to the International Bureau of WII 1211 Geneva 20, Switzerland, Facsimile N	PO. 34, chemin des Colombettes lo.: (41-22) 740.14.35					
For more detailed instructions, see the notes on the	accompanying theet.					
2. The applicant is hereby notified that no international sea Article 17(2)(a) to that effect is transmitted herewith.						
 With regard to the protest against payment of (an) additional foc(s) under Rule 40.2, the applicant is notified that: 						
the protest together with the decision thereon has been transmitted to the International Bureau together with the						
applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as 2000 as a decision is made.						
4. Reminders						
annicant wishes to avoid as sections withirstian a motice of	onal application will be published by the International Bureau. If the f withdrawal of the international application, or of the priority claim, siz.1 and 90 bis.3, respectively, before the completion of the technical					
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filled if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later): otherwise the applicant must, within 20 months from the priority date, parform the prescribed acts for entry into the national phase before those designated Offices.						
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.						
See the Annex to Form PCT/IB/301 and, for details about to Guide, Volume II, National Chapters and the WIPO Internet sl	he applicable time limits, Office by Office, see the PCT Applicant's te.					
Name and mailing address of the LSA/US	Authorized office Medelle Quet Suffer					
Mail Sup PCT, Aun: ISA/U\$ Commissioner for Parcus	Rodney Bovernick					
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. (571) 272-2800					
Facsimile No. (703) 305-3230 Form PCT/ISA/220 (April 2002)	(See notes on accompanying sheet					

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 06618-923WO1	FOR FURTHER ACTION	Report (Fo	ation of Transmitted of International Search orm PCT/ISA/220) as well as, where applicable, ow.			
International application No. International filing date (day/month/year) (Earliest) Priority Date (08 November 2002 (08.1						
Applicant CALIFORNIA INSTITUTE OF TECHNO	DLOGY					
This international search report has been according to Article 18. A copy is being	n prepared by this International Se g transmitted to the International l	arching Au Burcau	uthority and is transmitted to the applicant			
This international search report consists It is also accompanies	of a total of $\frac{3}{2}$ sheets. d by a copy of each prior art docu	ment cited	In this report.			
language in which it was filed	, unless otherwise indicated under t	als item.	basis of the international application in the			
the international search was	carried out on the basis of a transle and/or amiso acid sequence disci	ution of the	international application furnished to this international application, the international			
	al application in written form.		,			
flled together with the inter	national application in computer rea	dable form	L			
furnished subsequently to the	his Authority in written form.					
furnished subsequently to the	his Authority in computer readable	òπ.				
the statement that the subse- international application as	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
the statement that the information been furnished.	marion recorded in computer readab	le form is i	identical to the written sequence listing has			
2. Cartain claims were found	d unsearchable (See Box I).					
 Unity of Invention is lacki With regard to the title, 	ing (See Box II).					
the text is approved as subs	nitted by the applicant.					
the text has been established	d by this Authority to read as follow	7 5:				
5. With regard to the abstract,						
the text is approved as subt						
the text has been established within one mouth from the	 d, according to Rule 38.2(b), by the date of mailing of this international 	s Authority search rep	y as it appears in Box III. The applicant may ort, submit comments to this Authority.			
6. The figure of the drawings to be pu		No. <u>9A</u>	None of the figures			
because the applicant failed			-			
because this figure better cl						
Form PCT/ISA/210 (first sheet) (July 1998	3)					

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/35131

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

Optical filters (900A) having at least two coupled whispering-gallery-mode (WGM) optical resonators (610,620) to produce a second-order or higher-order filter function with a desired spectral profile. At least one of the coupled WGM optical resonators (610,620) may be tunable by a coursel signal to adjust the filtering function.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

	INTERNATIONAL SEARCH REPO)RT	ł	International appl	ication No.	
				PCT/US03/35131	l	
IPC(7) US CL	SSIFICATION OF SUBJECT MATTER : G02B 06/26, 06/42 : 385/15 o International Pacent Classification (IPC) or to both a	national alace	Iffertion on	LIDC		
	LDS SEARCHED	embien cress	ii icandii api	inc.	V	
	ocumentation scarched (classification system followed 385/15,27,28; 372/32,92,96,108	by classifica	ition symbol	S)		
Documentati INSPEC, IE	ion searched other than minimum documentation to th BE	e extent that	such docum	ents are included i	n the fields scarched	
Electronic da whispering g	ata base consulted during the international search (nan pallery mode, (optic\$6 near4 resonat\$6), (alter\$6 or cl	ne of data ba hang\$6) near	se and, who 3 (refract56	re practicable, sea near3 (index or in	rch terms used) dices))	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where	appropriate,	of the releva	unt passages	Relevant to claim No.	
х	US 2002/0044739 A1 (VAHALA et al) 18 April 20 4, 9; [0121]-[0126], [0129]-[0132], [0147].	002 (18.04.20	0012), see Ali	IS; figures 1A,	1-23	
A, T	US 6,718,083 B2 (LOPES et al) 06 April 2004 (06, 6, lines 38-65.	.04.2004), 66	e ABS; figu	re 2B; column	1-23	
A, P	US 6,490.039 B2 (MALEKI et al) 03 December 20 column 5, lines 20-33.	02 (03.12.20	102), see Ali	iS; figure 2;	1-23	
A	US 6,009,115 A (HO) 28 December 1999 (28.12.1999), see ABS, figures 1A, 9; column 3, line 66, through column 4, line 62; column 9, line 53, through column 10, line 46.					
	documents are listed in the continuation of Box C. pecial cargonies of cited documents:		-	mily annex.	d design to the	
"A" document	defining the general state of the art which is not considered to be		data and not ir.		metional filing date or priority adon has cleed to undergrand the otion	
'E" earlict app	of particular relevance "X" document of particular relevance; the claimed inversion cannot be considered novel or cannot be considered novel or cannot be considered to toyolve an inventive st whom the document is alone alone.					
1. decument which may threw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as "Y" decument of particular relevance; the claimed invention cannot be considered to involve as invanive stap when the document is combined with one or more other such documents, such combined.						
"O" document reletiting to an oral disclosure, use, exhibition or other means being obvious to a person skilled in the an "P" document published prior to the international filing data but later than the "As" document member of the same resimil family						
priority du	e climed stual completion of the international search			•	· ·	
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12 May 2004	A make a day		50 (V L 4007		
	iling address of the ISA/US Stop PCT. Aun: ISA/US	Authorized	OTTIKET 7	idelle Go	4784 8	
Com P.O.	missioner for Patents Box 1450 andria, Virginia 22313-1450	Rodney B Telephone	lovernick No. (571) 2	272-2800		
acsimile No.	(703) 305-3230 /210 (second sheet) (July 1998)					

Sheet <u>1</u> of <u>1</u>

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 06618-923001	Application No. 10/702,201	
1	losure Statement	Applicant Anatoliy Savchenkov et al.		
(Use several she (37 CFR §1.98(b))	ets if necassary)	Filing Date November 4, 2003	Group Art Unit	

	U.S. Patent Documents						
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	2002/0044739	4/18/2002	Vahala, et al.			
•	AB	6,718,083	4/6/2004	Lopes et al.			
	AC	6,490,039	12/3/2002	Maleki, et al.		1	
	AD	6,009,115	12/28/1999	Но			
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	AF						
	AG						
	AH						
	AI						
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Tran	slation No
	AL							
	AM							
	AN				,			
	AO			,				
	AP							<u> </u>

	Other Documents (include Author, Title, Date, and Place of Publication)					
Examiner Initial	Desig. ID	. Document				
	AQ					
	AR					
	AS					
	AT					

Examiner Signature	Date Considered
EXAMINER: Initials ditation considered. Draw line through citation if no	t in conformance and not considered, include copy of this form with

next communication to applicant.

Substitute Disclosure Form (PTO-1448)